

Instructions: Bold fields must be completed.

**Station Summary**

<b>Waterbody Name</b> HUNGRY RUN	<b>Waterbody ID Code</b> 2403300	<b>Sample ID (YYYYMMDD-CY-FD)</b> 20171012-02-03
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<b>Sampling Location</b> downstream of culvert ≈ 20 m	<b>Database Key</b> 149272314
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<b>SWIMS Station ID</b> 10048868	<b>SWIMS Station Name</b> HUNGRY RUN CREEK 105M DS OF FR 166
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<b>Latitude</b> 46.07032	<b>Longitude</b> -90.74047	<b>Lat/Long Determination Method (circle)</b> SWIMS SWDV GPS	<b>Datum Used if using GPS</b> WGS84 or NAD83
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<b>Basin (WMU)</b> UPPER CHIPPEWA	<b>Watershed Name</b> EAST FORK CHIPPEWA RIVER	<b>County</b> ASHLAND
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**Sample and Site Descriptors**

<b>Sample Collector (Last Name, First)</b> JOSEPH CUNNINGHAM	<b>Project Name</b> NORTH DISTRICT NC STREAM STRATIFIED SITES 2017
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**Sampling Device**

D-Frame Kick Net    
  Surber Sampler    
  Eckman  
 Ponar    
  Artificial Substrate    
  Hess Sampler    
  Other: \_\_\_\_\_

**Habitat Sampled**

Riffle    
  Run    
  Pool  
 Other    
  Shoreline Composite    
  Proportionally-Sampled Habitat  
 Littoral Zone    
  Profundal Zone    
  Wetland

<b>Total Sampling Time (min)</b> 1 min	<b>Estimated Area Sampled (m<sup>2</sup>)</b> 1 m <sup>2</sup>	<b>Number of Samples in Composite</b> 3-20 second Kicks	<b>Replicate No.</b> _____ <b>of</b> _____
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**Reason For Sampling**

Least Impacted Reference    
  Baseline    
  Impact / Treatment Site  
 Control Site    
  Trend    
 Other: Nat Common Stratified

<b>Water Temp. (C)</b> 8.9	<b>D.O. (mg/l)</b> 8.6	<b>D.O. (%sat.)</b> 73.8	<b>pH (su)</b> 6.1	<b>Conductivity (umhos/cm)</b> 40.4	<b>Transparency (cm)</b> >120
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<b>Water Color</b> <input type="checkbox"/> Clear <input type="checkbox"/> Turbid <input checked="" type="checkbox"/> Stained	<b>Estimated Stream Velocity (m/s)</b> <input type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input type="checkbox"/> Fast (> 0.5 m/s)
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<b>Measured Velocity</b> 0.3	<b>Average Stream Depth of reach (m)</b> 0.25 m	<b>Average Stream Width of reach (m)</b> 1.5 m
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**Composition of Substrate Sampled (Percent):**

Bedrock: \_\_\_\_\_    
 Boulders (basketball or larger): \_\_\_\_\_    
 Rubble (tennisball to basketball): 20    
 Gravel (ladybug to tennisball): 50  
 Sand: 20    
 Clay: \_\_\_\_\_    
 Silt/Muck: \_\_\_\_\_    
 Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: 5%    
 Leaf Snags: 5%    
 Coarse Woody Debris: \_\_\_\_\_    
 Other ( \_\_\_\_\_ ): \_\_\_\_\_

**Embeddedness of Substrate at Sample Site (%)** 20%    
**Canopy Cover at Sample Site (%)** 20%

**Stream and Watershed Descriptors**

N = Not a problem  
 U = Uncertain  
 PL = Present, Low Impact  
 PH = Present, High Impact

Factors that may be influencing Water Resource Integrity		Local	Water-shed	Factors that may be influencing Water Resource Integrity		Local	Water-shed
<b>Biological</b>				<b>Chemical</b>			
Algae: - Diatoms / Periphyton				Chlorine			
- Filamentous Algae				Dissolved Oxygen			
- Planktonic Algae				Nutrients (P, N...)			
Iron Bacteria				Toxics: - Inorganic (Metals)			
Macrophytes				- Organic (PCBs, pesticides...)			
Slimes				Other - Specify:			
Other - Specify:				<b>Sources of Stream Impacts</b>			
				Bank Erosion			
				Point Source - Specify:			
				Pasturing of Livestock			
<b>Physical</b>				Runoff: - Barnyard			
Bank Erosion				- Construction			
Channelization: - Upstream				- Cropland			
- Downstream				- Urban			
Hydraulic Scour / Channel Incision				Septic Systems			
Impoundment: - Upstream				Tile Drainage - Organic Soils			
- Downstream				- Mineral Soils			
Low Flow				Springs		U	PL
Sedimentation				Tributary(s)			PL
Sludge				Wetland		PL	PL
Thermal				Other - Specify:			
Turbidity							
Other - Specify:							

Comments *Beaver impacts*

Special Instructions for Laboratory

For Lab Use Only		
Sample Sorter <i>Jesse Oberg</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>13%</i>
Date Processed <i>9/19/18</i>	Specimens Saved <i>Subsample archived in ABL until Dec 2021</i>	

*D1 X99 X 6*  
*D3 59 2.3*  
*A1*  
*E2*  
*158 total*  
*8.2 hr*

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
<i>Pamphila angulata</i>	L	IIII	24	Hitch 1974		
Taeniopteryx	L	I	1	Hils 1995	imm	
Acerenza	L	XII	12	Kibb 2016	dam	N
<i>A. macdunnoughi</i>	L	-III	3	"		
<i>Ephemerella invaria</i>	L	I	1	"		
<i>Baetis brunneicolor</i>	L	I	1	"		
<i>Mesochorema</i>	L	-I	1	"	dam/imm	N
<i>M. virarium</i>	L	XII	12	"		
Leptophlebiidae	L	I	1	"	dam	N
<i>Leptophlebia</i>	L	"	2	"	imm	N
<i>L. cupida</i>	L	"	2	"		
Coloburiscidae	L	I	1	West May 1996	imm	
<i>Cordulegaster maculata</i>	L	I	1	Need et al 2002		
<i>Colossoma</i>	L	"	2	Hils 1995	imm	N
<i>G. intermedium</i>	L	-	5	Wym Mar 2000		
<i>Orematopse</i>	L	III	3	Hils 1995		
<i>Hydropsyche</i>	L	IIII	4	"	imm	N
<i>H. betteri</i>	L	X-III	13	Schm Hils Kibb		
<i>Lepidostoma</i>	L	-I	1	Hils 1995		
Limnephilidae	L	I	1	"	imm	
<i>Lype diversa</i>	L	III	3	"		
<i>Coena styliata</i>	L	I	1	"		
<i>Neophylax</i>	L	I	1	"	imm	
<i>Opatrosenus</i>	L	I	1	Hils Schm 1992		
<i>Stenelmis crenata</i>	A	I	1	"		
<i>Probezia</i>	L	I	1	Hils 1995		
<i>Ceratopogon colicoidithorax</i>	L	-II	2	"		
<i>Hemerodromia</i>	L	IIII	4	Court Mar 2003		
<i>Simulium venustum</i> species complex	L	I	1	Adl et al 2004		
<i>S. pilosum</i>	L	I	1	"		
<i>Prosimulium</i>	L	-	5	"	imm	
<i>Deconeta</i>	L	IIII	4	Hils 1995		
Mermithidae	A	"	2	Thorp 2006	imm	
Naididae	A	I	1	Brinfield 1991		
Lumbriculiidae	A	I	1	Thorp 2006	post frag	
Ergasilidae	A	III	3	"	dam	



